

2015	Local Oscillator	June
	<h1>Local Oscillator</h1>	
Mesilla Valley Radio Club		

This is a pdf file. It will print easily. A free pdf file reader is at <http://www.adobe.com>

Current Events			Table of Contents
Date	Event	Time	BBHN Clubhouse Cameras Club Minutes Board Minutes Treasurer Report Club Location Club Officers Membership Application
Sat (with no club meet)	Informal at Village Inn Telshore	6:00 AM	
M, W, F	Informal Wal-Mart (West)	10:00 AM	
Wed	MVRC Net 146.64	6:45 PM	
June 5	Coffee Club House	8 AM	
June 5	Business meeting Club House	9 AM	
June 2	Builder's Group Club House	7 PM	
June 10	Board Meeting Club House	7 PM	
June 9	Linux -SIG Club House	7 PM	
June 16	Builders Group Club House	7 PM	
June 23	Linux - SIG Club House	7 PM	
June 27 - 28	Field Day Club House		
For more events see http://www.n5bl.org/calendar			



More information at <http://swantenna.com>



Testing at Bean Feed

The Articles for This Month

BBHN

WA5DJJ

Here is a summary of the new developments on the BBHN.

Kyle (KY2LE) and Charles (KG5BVE) have been installing a new video security system with Cameras 1 through 4 at the MVRC clubhouse and fixing it so that it can be accessed on both The BBHN and the internet. For us on the BBHN side put 10.253.23.125 IP address into your browser address and you should get a LOGIN page. For the LOGIN use admin and leave the password blank. When the Camera page comes up, choose camera 1 through 4 (use the middle arrow). Camera 1 is inside the meeting room and all cameras have daylight and dark provisions. I was able to get a view of the meeting room last night and it looked really good. As our network throughput improves this will get better. We need more on the MESH to provide better throughput.

We are growing even more. This week K3JEN, Jennifer Sensiba, came up on the BBHN from Maple street in Las Cruces. She has also installed the new HAMCHAT on her UBIQUITI NANO M2 which gives anyone who installs it on their node a chat page that can be used as a

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message box. The neat thing about HAMCHAT is that you need no other program to chat on it. It uses any browser as the chat screen and input. It works very smooth. It is advertised on the BBHN and can be accessed from anywhere. Instructions for adding it to your node are on the BROADBAND HAMNET website on the internet. Try it out, I think you will like it.

The search for new and better ways to communicate on the BBHN continues. Welcome Jennifer, Glad to have you.

I know of 3 others who are working to get a presence on the BBHN and hopefully they will be finding a way to access the BBHN. I am still trying to find more sites on high ground for BBHN locations on the east and west mesas. That will help us cluster our individual nodes and provide better signal strength. So, talk it up with your friends and neighbors and other Amateurs who may not have heard of our Broadband Hamnet effort.

My effort now is to improve the mesh by installing multiple UBIQUITI NANO M2 units in single or multiple configurations to fill in between the main hot spots with a good network of individual nodes so that everyone has two or three current neighbors on their MESH STATUS page. It takes more MESH members to make this grow. We need other amateurs to put up a MESH node even if they are not planning to use the MESH right now or we need sites that the club or other groups can install a mesh node on the BBHN to provide more MESH connections. One person a while back asked me how many MESH nodes can be connected to the BBHN. The answer is hundreds. The network will figure out how to connect them up in a network. I think Jim Kinter and the Austin, Texas BBHN has 146 active nodes in their system. In the MESH network system, the more nodes that can see each other the better it works. It is really a different way of thinking than normal Amateur Radio. We need to spread south toward Texas to provide Richard, KB5SQB, some alternate paths back this way from Canutillo, Texas. He is kind of sitting out there being the south anchor spot. I know there are other amateurs between Las Cruces and Canutillo that could provide additional MESH nodes if they knew about our system and how easy it is to expand it. So we need to work on recruiting in that direction. Another place we need to work on is the east mesa. We need to get that group up there clustered together and get them access out of there to the main network. Even though they are relatively close to each other, They appear isolated from the clubhouse on the south side of Highway 70 and there is no really good high ground hot spot to join them all together. So, some study, engineering, and additional intermediate nodes may be needed to get this group added to the MESH with low ETX numbers.

We have had a good month. For those working on joining the MESH... Keep at it. For those who are working at expanding the MESH.... Keep at it. For those who are working on services that we can all use on the MESH... Keep at it. I have ordered my second 1,000 foot box of shielded outdoor ethernet cable and shielded connectors. I only have a little over 100 feet left on the original box. That alone tells me that we are growing. Work continues on three nodes that I know of, putting them on solar power. Work continues to get a good schematic and parts together to harden all the sites with at least battery backup power for the node radios and the switches. So if we have a power failure we will survive. Another members message will come out with designs and discussions for that effort very soon.

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Clubhouse Cameras

KY2LE and KG5BVE

In early May, 2015, MVRC members Kyle and Charles installed a video security system at the Mesilla Valley Radio Club (MVRC) clubhouse. The system is connected to the MVRC Broadband Hamnet (BBHN). MVRC members with access to the BBHN can connect from their stations to the video system and monitor the activity at the clubhouse.

The video system consists of four cameras with night vision and a control box. The cameras are connected to the control box via cables. All cables are concealed in the ceiling and conduit. Two of the cameras are mounted outside and two are mounted inside. One outside camera, located on the Southeast corner (Photo #1), views the entrance door on the East side of the clubhouse

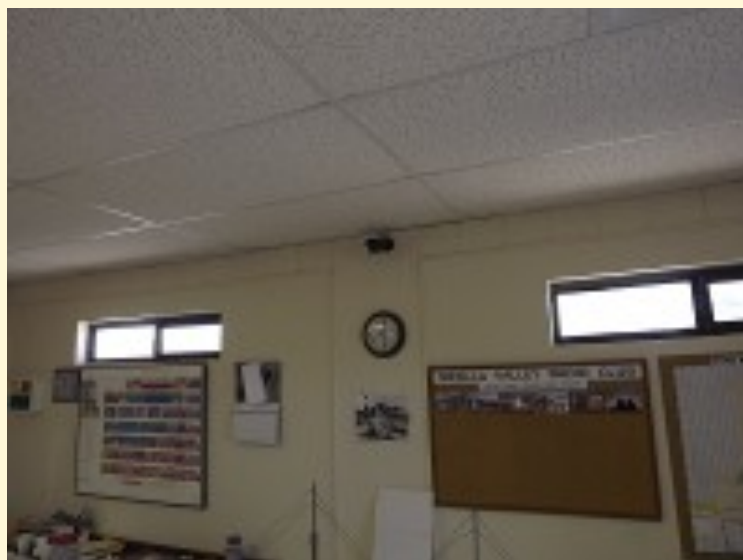


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and the second outside camera, mounted on the Northeast corner (Photo #2), views the storage



building entrance. One of the inside cameras views the meeting room (Photo #3) from the back (North side) and the second inside



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camera views the radio room (Photo #4) and the West entrance from the back (South side) of the room.



The control box (Photo #5) connects, via Ethernet cable, to an Ethernet switch. The Ethernet switch connects the three BBHN radios together and to the Linux server. The BBHN Omni radio has been designated as the access point for the video control box.

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A monitor has been connected to the control box and displays all four cameras (Photo #6 is a photo of a monitor) at the same time. Members with BBHN access can get a live (4-second de-



lay) feed of the four cameras (one at a time) to their web browser by clicking on the Cameras link under the clubhouse node while viewing the neighbors on the OLSR page from their BBHN node.

The control box can be configured to act as a motion detector using the camera video and save the camera video for a period of time before a motion is detected up through a configurable period after the motion was detected. Other configuration options are being studied.

Monthly Club Meeting

WB5OCY

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Minutes for Mesilla Valley Radio Club Saturday May 2, 2015

Club Meet and Greet was at 8 AM to 9 AM. Coffee and juice as well as fat pills were once again provided by ex Special Events board member Terry Angle, AE5XI. Thanks again Terry.

9:00 AM to 10:00 AM Alex Burr K5XY spoke on the county hunter's aspect of 9:00 AM to 10:00 AM Alex Burr K5XY spoke on the county hunter's aspect of amateur radio. There are well over 3000 counties in the United States and some of the more active folks are working on getting their worked all counties for the 2nd or 3rd time. N5BL has very interesting and informative speakers every month and this was one of the more interesting one. Thank you for your time Alex.

10:00 AM. The business meeting was called to order by acting club president Robert Truitt KE5OFK. As is our custom, members introduced themselves with name, call and class of license. Members were asked to pay their dues if they have not so as of this month. The recent Bean Feed was a financial success in spite of the weather. A roster of current dues paid members will be distributed soon.

John Cruddas KE5JWC Communications. For field day activity. John passed out a field day brochure of interest for members who may not have access to a computer. A sign up sheet is at the club for members who wish to operate field day at the club. A solar power unit will be provided for power on field day.

George Kopp KD5OHA Athletic Activity Event Coordinator. No upcoming race activity to report at this time. George is net control for the club repeater on 146.64. The net meets at 6:45 PM on Wednesdays. All licensed hams are encouraged and invited to participate. George's cell is 575-640-7853. George has suggested that Bean Feed be moved to a later date so as to avoid a scheduling conflict with other ham activities. Also the weather might be more accommodating at a later date.

Cash Olsen KD5SSJ Education: Builders group is alive and well. Future topics will be oscilloscope use from very basic to very complex. June's talk is still TBD, no one scheduled yet. Same for August, TBD. No club meeting in July.

Geoff Abruzzi W5ARP for the Linux users group. Geoff reports he has to be absent on the 4th and 2nd Tuesday for an appointment. Members are free

Bob Bennett AD5LJ for Building and Property. Bob suggested that the club rethink how consignment gear is dealt with in the future. Bob feels that many folks have an inflated unrealistic value for some of their equipment

Sven Breden WB5OCY club secretary participated in a VE session at the Bean Feed. One candidate from Albuquerque passed her Technician class test.

Margaret Bernstein KF5KHJ turned in the proposal to Branigan and we are waiting for feed back

Items of note:

Field day is always the fourth full weekend of June, beginning at 1800 UTC Saturday and running through 2059 UTC Sunday.

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MVRC Club meeting proper meets 1st Saturday of the month.

Builders Group meets 1st and 3rd Tuesdays at 7 PM every month at the club house. Bring your problem project or completed one to share with the group.

Linux SIG meets 2nd and 4th Tuesdays at the club house.

Board meetings are the Wednesday following the regularly scheduled club meeting. Visitors are encouraged to attend

For anyone who wants to be added to or removed from the clubs various email accounts, here are the links

Main http://n5bl.org/mailman/listinfo/mvrc_n5bl.org

Builders Club - http://n5bl.org/mailman/listinfo/builders_n5bl.org

Linux-SIG http://n5bl.org/mailman/listinfo/linux-sig_n5bl.org

Meeting adjourned at 10:22 AM.

Monthly Board Meeting (May 6)

WB5OCY

Board Members Emeritus

Dave Hassall WA5DJJ

Terry Angle AE5XI

Current MVRC Board Members:

Gus Landis N0YRQ President

Sven Breden WB5OCY Club Secretary

Hugo Costa N1MEX Club Treasurer

Cash Olsen KD5SSJ Education

George Kopp KD5OHA Athletic Activity Event Coordinator

Robert Truitt KE5OFK Repeater Group Support

Terry "Woody" Wood KF5SMQ Special Events

Bob Bennett AD5LJ Building and Property

Alex Burr K5XY Publications and Newsletter

John Cruddas KE5JWC Communications

Board members present at tonight's meeting: Sven Breden, Hugo Costa, Robert Truitt, Bob Bennett and Alex Burr.

Visitors: Charles Combs KG5BVE

Meeting was called to order at 7:05 PM by Robert Truitt KE5OFK, interim club president.

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Robert Truitt KE5OFK Repeater Group Support The first order of business was to recommend that the board accept and acknowledge that Gus and Co are paying for the clubs internet connection. The board agreed to forgo club dues for Gus in lieu of this fact. The board unanimously approved this resolution. Robert reports that approximately \$1800 has been made from the sale of consignment equipment. The new membership roster was discussed. Errors and omissions are to be addressed.

Robert said the club's repeaters are doing well. One is due for a new battery. Our club secretary Sven Breden has agreed to donate a new one for the cause. Our present President Gus's condition was discussed. Robert has agreed to continue on in a temporary mode of president until a suitable candidate can be identified.

Bob Bennett AD5LJ Building and Property: Bob Bennett took in \$4769.25 from the sale of donated equipment at the Bean Feed. Several items that were for sale are still left. The disposition of these items was discussed moving the Bean Feed to a better date is being looked at. The weather seems to be just not quite right for the date it is presently scheduled for. The first Saturday of May is being checked for possible conflicts with other group's activities.

Sven Breden WB5OCY Club Secretary Sven reports he is now a participating VE. Sven has agreed to take over future equipment consignments.

Alex Burr K5XY Publications and Newsletter: Alex is always looking for more items of interest to put in the LO. The email delivery of the LO is "iffy" at best. This is being looked into.

Hugo Costa N1MEX Club Treasurer: Hugo gave the treasurers report and it was accepted by the board. The clubs endowment was discussed.. Hugo will report back to the board at a later date.

Meeting adjourned at 8:55 PM

Treasurer Report

N1MEX

The March 31 treasurer's report appears nicely formatted on the next page.



Mesilla Valley Radio Club

Treasurer's Report – April 30, 2015

Account Balances:

Checking:	\$ 11,068.21	Deposits:	\$ 6,435.00	Withdrawals:	\$ 205.37
Savings:	\$ 5,402.01				
Savings (Ed):	\$ 1,657.42				
Accounts Total:	\$11,897.83				

Fund Balances: (2013-2015)

Repeater Fund:

Donations	Expenditures	Balance
\$ 0.00	\$ 0.00	\$ 1,029.00

Building Fund:

Donations	Expenditures	Balance
\$ 0.00	\$ 0.00	\$ 467.96

Mesilla Valley Radio Club BUDGET - 2015

Month/Year: April 30, 2015

SUMMARY	ACTUAL	BUDGETED	OVER BUDGET	UNDER BUDGET	
Total income	9,104.96	7,055.00	2,049.96		
Total expenses	635.08	7,055.00		-6,419.92	
Income less expenses:	8,469.88		8,469.88		

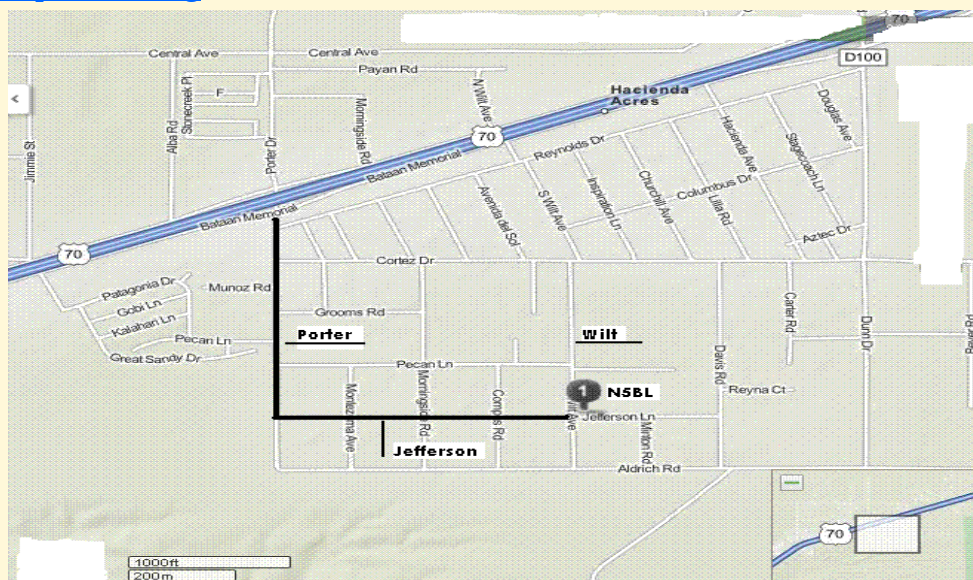
INCOME DETAILS	ACTUAL	BUDGETED	OVER BUDGET	UNDER BUDGET	NOTES
Bean Feed	6,435.00	2,000.00	4,435.00		Over Budget amounts
Breakfast/Refreshments	52.00	300.00		-248.00	in this section are good!
Donations (Building Fund)	367.96	1,000.00		-632.04	" " " "
Donations (Repeater Fund)	660.00	1,000.00		-340.00	" " " "
Dues	1,145.00	2,450.00		-1,305.00	" " " "
Equipment Sales (Non-Bean Fd)	445.00	300.00	145.00		" " " "
Interest Income		5.00		-5.00	" " " "
Total income:	9,104.96	7,055.00	2,049.96		" " " "

EXPENSE DETAILS	ACTUAL	BUDGETED	OVER BUDGET	UNDER BUDGET	NOTES
Awards/Donation	32.00	275.00		-243.00	Under Budget amounts
Banking Fees	9.00	12.00		-3.00	in this section are good!
Bean Feed	125.00	250.00		-125.00	" " " "
Breakfast/Refreshments	21.75	150.00		-128.25	" " " "
Building Supplies/Expenses		1,000.00		-1,000.00	" " " "
Insurance (Building & Liability)		1,350.00		-1,350.00	" " " "
Office Supplies		75.00		-75.00	" " " "
P.O. Box/Web Site		175.00		-175.00	" " " "
Property Taxes		1,350.00		-1,350.00	" " " "
QSL/Events		100.00		-100.00	" " " "
Repeaters/Radio Equipment		768.00		-768.00	" " " "
Utilities	446.61	1,300.00		-853.39	" " " "
Unclassified		0.00			" " " "
Sales Tax	0.72	0.00	0.72		" " " "
Travel Expenses		250.00		-250.00	" " " "
Total expenses:	635.08	7,055.00		-6,419.92	" " " "

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CLUB INFORMATION

The MVRC Clubhouse is located at the intersection of Wilt and Jefferson. To find the clubhouse, set your destination on your GPS receiver as 32 degrees 22.961 minutes and -106 degrees 41.44 minutes. If you don't own a GPS, take the Porter exit near the firehouse on US 70. It is about 5 miles east from the I 25 interchange. Go south on Porter until you come to Jefferson. There turn left toward the mountains and go to Wilt. You will see the beam on the corner. The treasurer would be delighted to receive your contribution for landscaping and furnishing. More information at <http://n5bl.org>



Officers				
Office	Name	Call	Phone	E-Mail
President	Gus Landis	N0YRQ	636-2229	n0yrq.1dl@gmail.com
VP				
Secretary	Sven Breden	WB5OCY	525-9445	sven.breden@gmail.com
Treasurer	Hugo Costa	N1MEX	644-9211	n1mex@arrl.net
Board Members				
	Cash Olsen	KD5SSJ	382-1917	kd5ssj@arrl.net
	Bob Bennett	AD5LJ	382-0148	rpbennett1@comcast.net
	Alex. Burr	K5XY	522-2528	k5xy@arrl.net
	Robert Truitt	KE5OFK	649-4173	robhtruitt@zianet.com
	Terry Wood	KF5SMQ	915-6891	KF5SMQ@yahoo.com
	John Cruddas	KE5JWC	526-9199	KE5JWC@yahoo.com

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JOIN THE CLUB

To join the Mesilla Valley Radio Club, renew your membership, or to support the repeaters, please print, cut out, and complete the form below. Send it with dues (\$35 single, \$45 family per year, add \$10 to receive the newsletter by US mail instead of e-mail) to: Treasurer, MVRC, Box 1443, Las Cruces, NM 88004.

MESILLA VALLEY RADIO CLUB

CALL SIGN(S) _____ FAMILY yes _____ no _____

LICENSE CLASS (E, A, G, T, N) _____

ARRL (Y/N) _____

ARRL VE (Y/N) _____

Would you like to be added to the MVRC reflector? _____

NAME _____

EMAIL _____

STREET ADDRESS _____

CITY & ZIP _____ PHONE _____ (OPTIONAL)

INTERESTS – Computer ___ Contests ___ Digital ___ Elmer ___ Emergency Communications ___ Field Day ___

Packet ___ Programs ___ Public Service ___ Publicity ___ RFI ___ Repeater ___ Social ___ License Classes ___

Teach License Classes ___ Volunteer Examiner ___ Other _____

SINGLE \$35 FAMILY \$45